Form PTO 948 (Rev. 8-98)   U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office   Application No. 9/313,942

NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 5-10-99 are:
A. ☐ approved by the Draftsperson under 37 CFR 1.84 or 1.152.
B. ☑ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be sumitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:
   Black ink. Color.
   ___ Color drawings are not acceptable until petition is granted.
   Fig(s) _____
   ___ Pencil and non black ink not permitted. Fig(s) _____
2. PHOTOGRAPHS. 37 CFR 1.84 (b)
   ___ 1 full-tone set is required. Fig(s) _____
   ___ Photographs not properly mounted (must use brystol board or photographic double-weight paper). Fig(s) _____
   ___ Poor quality (half-tone). Fig(s) _____
3. TYPE OF PAPER. 37 CFR 1.84(e)
   ___ Paper not flexible, strong, white, and durable. Fig(s) _____
   ___ Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) _____
   ___ Mylar, velum paper is not acceptable (too thin). Fig(s) _____
4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:
   ___ 21.0 cm by 29.7 cm (DIN size A4)
   ___ 21.6 cm by 27.9 cm (8 1/2 x 11 inches)
   ___ All drawing sheets not the same size. Sheet(s) _____
   ___ Drawings sheets not an acceptable size. Fig(s) _____
5. MARGINS. 37 CFR 1.84(g): Acceptable margins:
   Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm
         SIZE: A4 Size
   Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
         SIZE: 8.1/2 x 11,
   Margins not acceptable. Fig(s) 3-8,17-22,23A-26,27
   ___ Top (T)   ___ Left (L) 30,31C-32G
   ___ Right (R) ___ Bottom (B)
6. VIEWS. 37 CFR 1.84(h)
   REMINDER: Specification may require revision to correspond to drawing changes.
   Partial views. 37 CFR 1.84(h)(2)
   ___ Brackets needed to show figure as one entity. Fig(s) _____
   ✓ Views not labeled separately or properly. Fig(s) 4,9
   ___ Enlarged view not labeled separetely or properly. Fig(s) _____
7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)
   ___ Hatching not indicated for sectional portions of an object. Fig(s) _____
   ___ Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
   ___ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____
9. SCALE. 37 CFR 1.84(k)
   ___ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)
   ✓ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) 1-6,17-20
11. SHADING. 37 CFR 1.84(m)
   ___ Solid black areas pale. Fig(s) _____
   ___ Solid black shading not permitted. Fig(s) _____
   ___ Shade lines, pale, rough and blurred. Fig(s) _____
12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)
   ✓ Numbers and reference characters not plain and legible. Fig(s) 1-6,17-20
   ___ Figure legends are poor. Fig(s) 2
   ___ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____
   ___ English alphabet not used. 37 CFR 1.84(p)(2) Figs _____
   ___ Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig(s) _____
13. LEAD LINES. 37 CFR 1.84(q)
   ___ Lead lines cross each other. Fig(s) _____
   ___ Lead lines missing. Fig(s) _____
14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)
   ___ Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____
15. NUMBERING OF VIEWS. 37 CFR 1.84(u)
   ___ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
16. CORRECTIONS. 37 CFR 1.84(w)
   ___ Corrections not made from prior PTO-948 dated _____
17. DESIGN DRAWINGS. 37 CFR 1.152
   ___ Surface shading shown not appropriate. Fig(s) _____
   ___ Solid black shading not used for color contrast. Fig(s) _____

COMMENTS

REVIEWER JC   DATE 9-21-99   TELEPHONE NO. 703 305 8430